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Science and Technology for Tomorrow's Aerospace Forces

Success Story

ENGINEER RECEIVES ASSOCIATION OF OLD CROWS AWARD



Mr. Neeraj Pujara of the Sensors Directorate, Reconnaissance, Strike and Combat Identification Branch, received the Association of Old Crows (AOC) 2000 Navigation Warfare Award for his role in championing three high priority programs. His significant developments in advanced technology programs include the areas of information superiority, electronic warfare, and navigational warfare.



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Accomplishment

Mr. Pujara received the AOC's 2000 Navigation Warfare Award for work accomplished in the Integrated Global Positioning System (GPS) Electronic Combat (INGECT) program, the Advanced Tactical Targeting Technology (AT3) program, and the Theater Missile Defense Eagle Smart Sensor and Automatic Target Recognition (TESSA) IV program.

Background

Mr. Pujara's accomplishments include overseeing three multi-million dollar programs, which directly support the warfighter. The INGECT flight test program used two aircraft sharing precise GPS position, velocity, and time information. This system will allow the warfighter to locate ground-based electronic threat emitters much more accurately by enabling the High-Speed Anti-Radiation Missile Targeting System. INGECT exceeded all operational performance expectations and goals while simultaneously maintaining cost and schedule.

The AT3 uses multiple aircraft, each equipped with sophisticated electronic equipment to locate and destroy mobile air defense units. This key enabling technology will enhance GPS for precise position, velocity, frequency measurements, and atomic clocks for precision time and for periods of GPS outage. It will compute a precise threat ground emitter geolocation to an unprecedented 50 meters, at ranges beyond 50 nautical miles in less than 10 seconds.

TESSA IV, a joint AFRL and Theater Missile Defense System Program Office program, provides the F-15E aircraft with an enhanced multisensor fusion advanced target recognition capability that enables the navigation reference information required to fuse and align onboard sensors. Aircraft will soon engage time-critical targets by fusing the outputs of the aircraft radar and forward-looking infrared for never-before attainable, longer-range, higher-confidence target recognition.

Additional information

To receive more information about this or other activities in the Air Force Research Laboratory, contact TECH CONNECT, AFRL/XPTT, (800) 203-6451 and you will be directed to the appropriate laboratory expert. (01-SN-03)

Sensors
Awards and Recognition